

5 Figure 1: Stress-strain hysteresis curve diagram

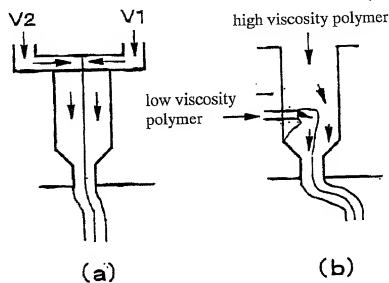


Figure 2

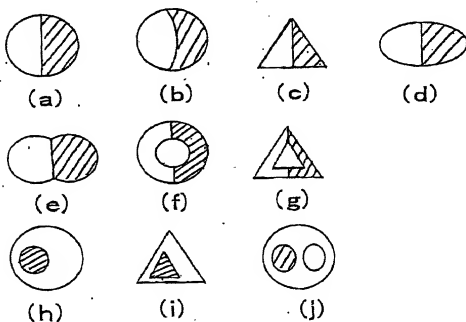


Figure 3

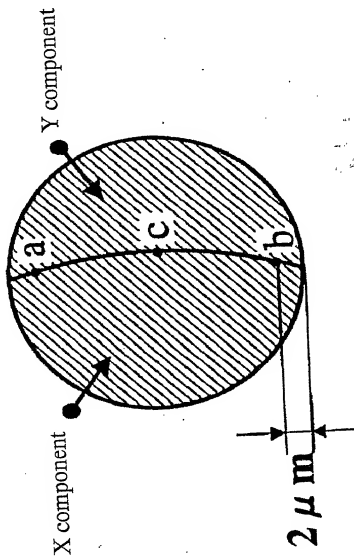


Figure 4

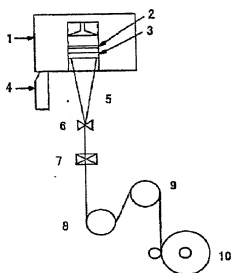


Figure 5

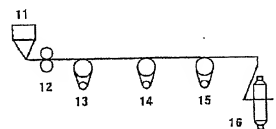


Figure 6

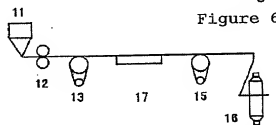


Figure 7

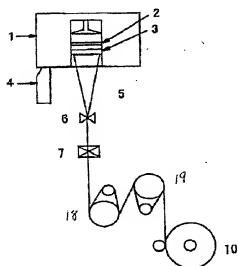


Figure 8

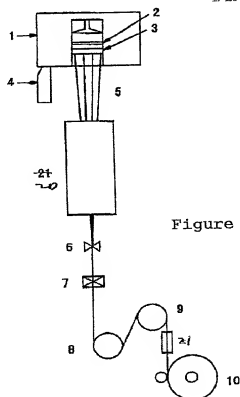
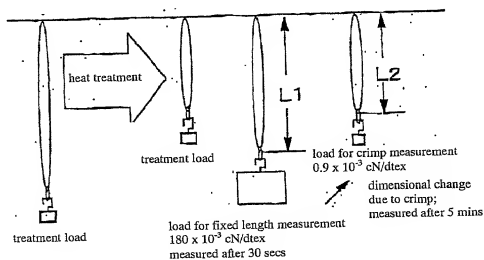


Figure 9



$$\text{crimp stretch factor (\%)} = (L_1 - L_2) / L_1 \times 100 (\%)$$

heat treatment: 15 mins in boiling water +
 15 mins dry heat at 180°C

Figure 10



Figure 11